

EOC Goal 1.02 Review
Formulas/Algebraic Expressions

For questions 13 – 15, solve each equation for the given variable.

13. $A = \frac{1}{2}bh; b$

14. $y = mx + b; x$

15. $C = \pi d; d$

16. The sum of three consecutive integers is 582. Find the greatest of the three integers.

17. The sum of three consecutive *even* integers is -198. Find the greatest of the three integers.

18. The handicap H of a bowler whose average A is often found by using the formula $H = 0.8(200 - A)$. A bowler's final score for a game is the actual score plus the bowler's handicap. Find the handicap of a bowler whose average score is 135.

19. Jan is one year younger than her brother Bill and one year older than her sister Sue. The sum of their ages is 57. How old is each family member?

20. Mr. Gomez paid a total of \$267 for the repairs of his car. The cost of the labor was two-thirds of the total charge. Find the charge for labor.

21. A taxicab company charges each person a flat fee of \$1.85 plus an additional \$0.40 per quarter mile. Find the cost for 1 person to travel 8 mi.

22. Nice 'N Clean Laundromat charges \$1.50 to wash each load and \$1.25 to dry each load. How many loads could a family wash and dry if they have \$22?

23. Use the formula $P = 2(w + l)$ to find the perimeter in centimeters of a rectangle with length 4.45 cm and width 1.3 cm.

24. The sum of three consecutive integers is 216. Find the integers.

25. The Empire State Building is 1250 ft tall and it has 102 stories. It is 859 ft taller than the Park Row Building, the world's tallest building in 1900. What was the height in feet of the Park Row Building?